

Advisory Committee on Water Information

Streamgaging Task Force

Charge: Determine the streamflow information needs of the Nation, identify the optimal streamgaging network to meet the needs, and prepare recommendations for funding responsibilities.

Streamgaging Task Force

Members

Interstate Council on Water Policy

U. S. Geological Survey

American Association of State Geologists

American Society of Civil Engineers

American Water Resources Association

Association of State Floodplain Managers

Association of Western State Engineers

Ground Water Protection Council

Streamgaging Task Force

Members

Tennessee Valley Authority

Western States Water Council

Bureau of Reclamation

National Weather Service

Natural Resources Conservation Service

U. S. Environmental Protection Agency

U. S. Army Corps of Engineers

Streamgaging Task Force Plan

1. Identify goals of a national network
2. Compile information on all available streamgaging stations
3. Evaluate achievement of National goals using the USGS network model
4. Identify additional stations needed to achieve each goal
5. Estimate cost of new or upgraded stations
6. Propose a long-term funding strategy
7. Submit recommendations to the ACWI

Streamgaging Task Force

National Network Goals

1. NWS and NRCS forecast points*
2. NFIP communities
3. Key river basins*
4. River basin compacts and decrees and major river crossings of state, tribal, and international boundaries*
5. Representative streams and rivers for flow estimation and long-term trends*
6. National water-quality monitoring network streams*
7. Rivers with impaired water quality

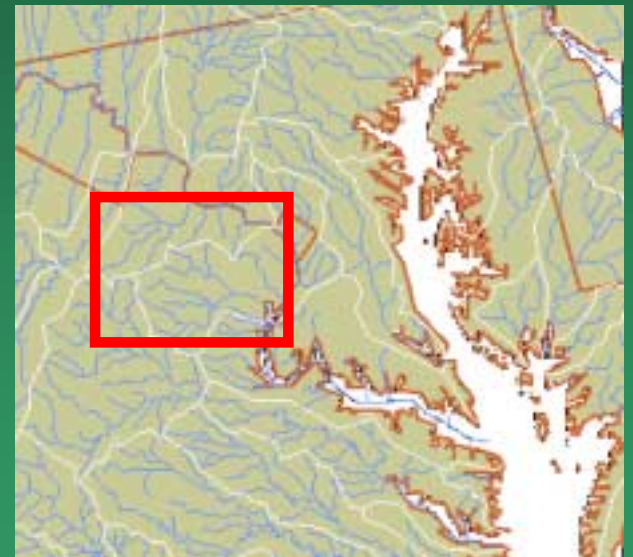
Streamgaging Task Force

National Network Goals

8. Rivers with NPDES permits exceeding 10 MGD
9. Rivers with significant canoeing, kayaking and rafting
10. Rivers draining Federal lands
11. Major rivers with diversions
12. Inflow and outflow of major reservoirs
13. Rivers supporting migratory fish populations
14. Rivers used for commercial navigation

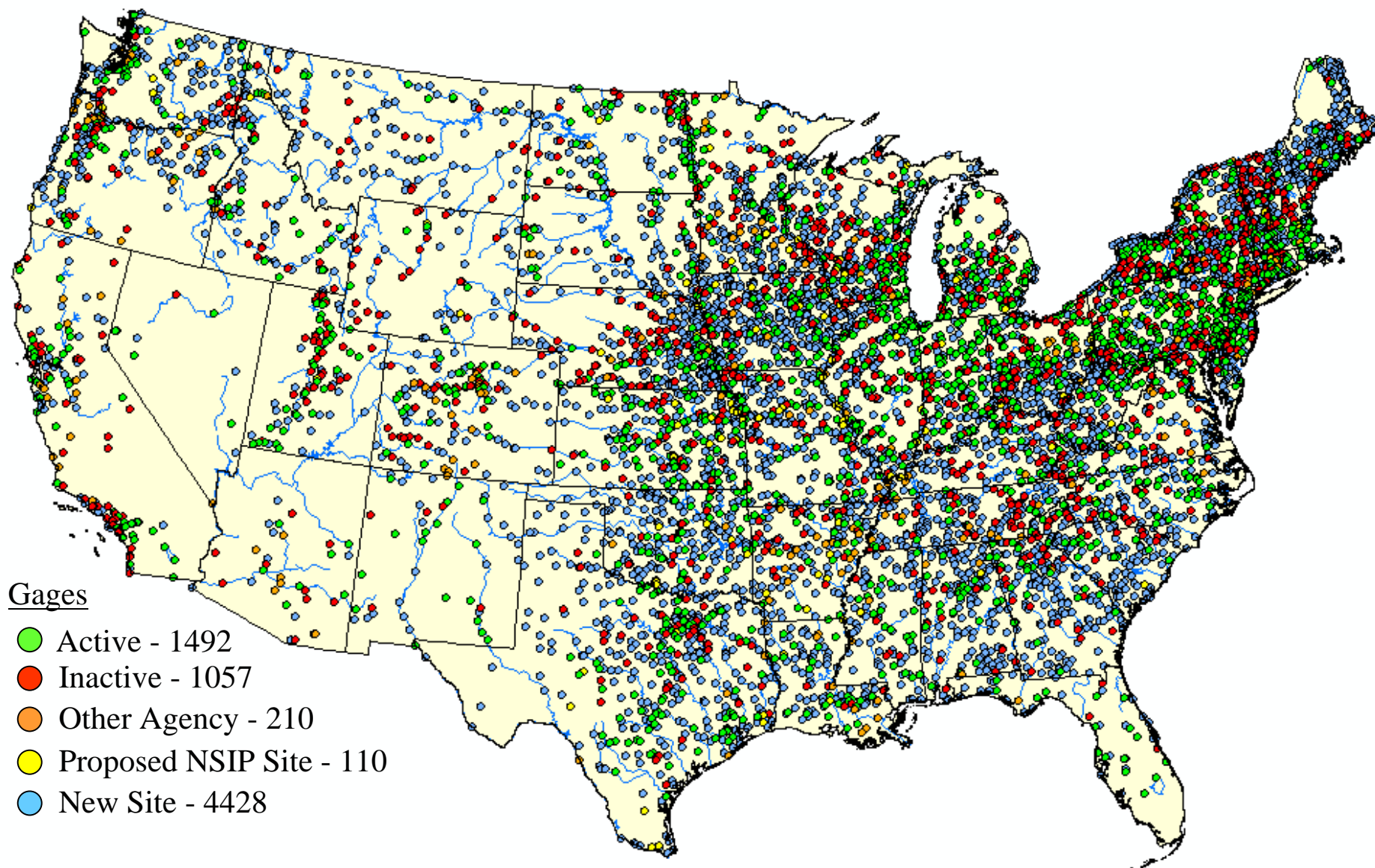
USGS Network Model

- Conterminous U.S.
- 60,000 streams (total 1M kilometers)
- 329 river basins and 2,200 watersheds
- NWS and NRCS sites
- 18,000 NFIP communities
- 303(d) file of impaired reaches
- NPDES permits
- Reservoir inventory
- Whitewater inventory
- Water use by county and HUC
- 20,000 streamflow stations
 - 7,000 USGS active
 - 1,800 other agency stations

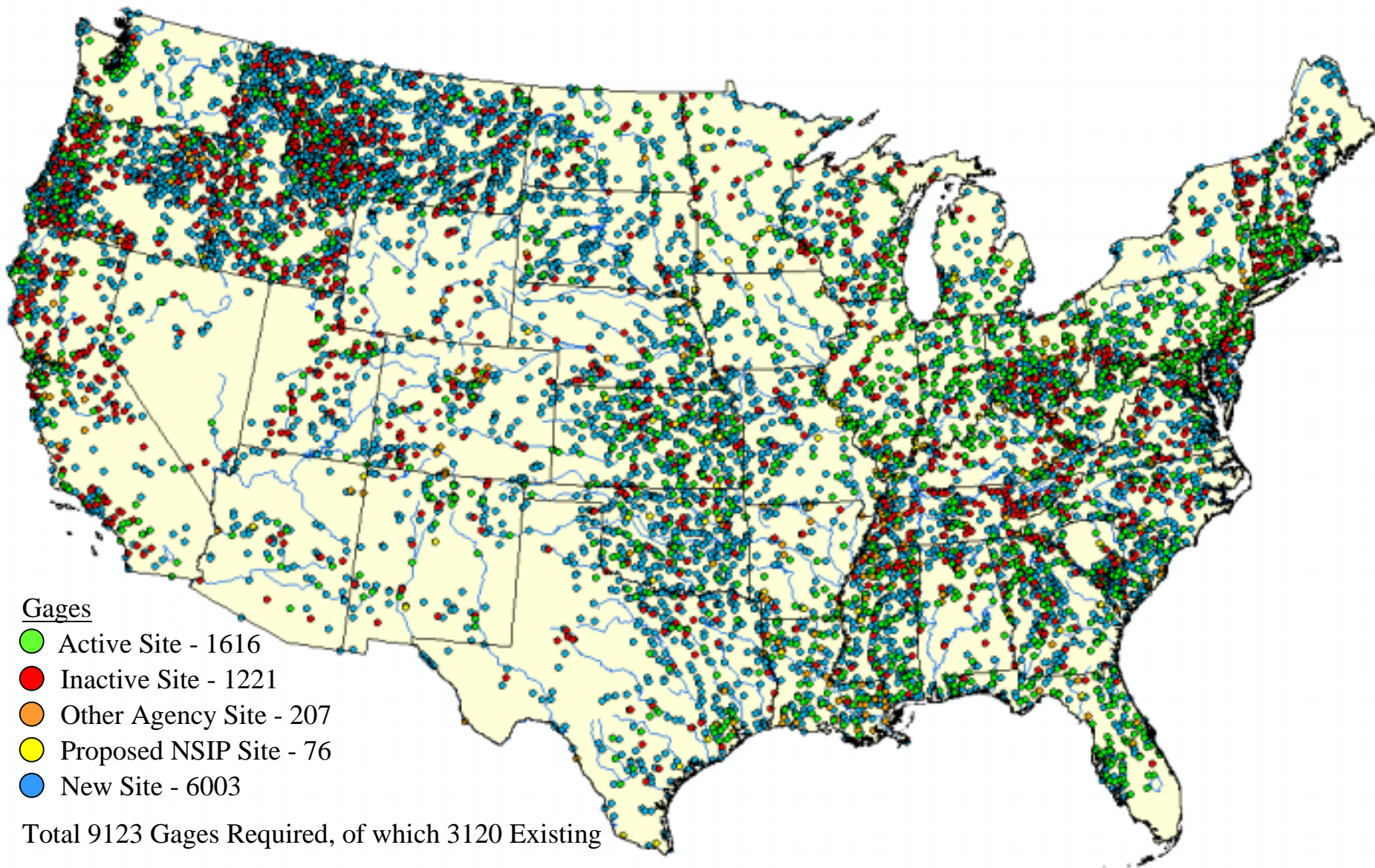


National Flood Insurance Program Sites

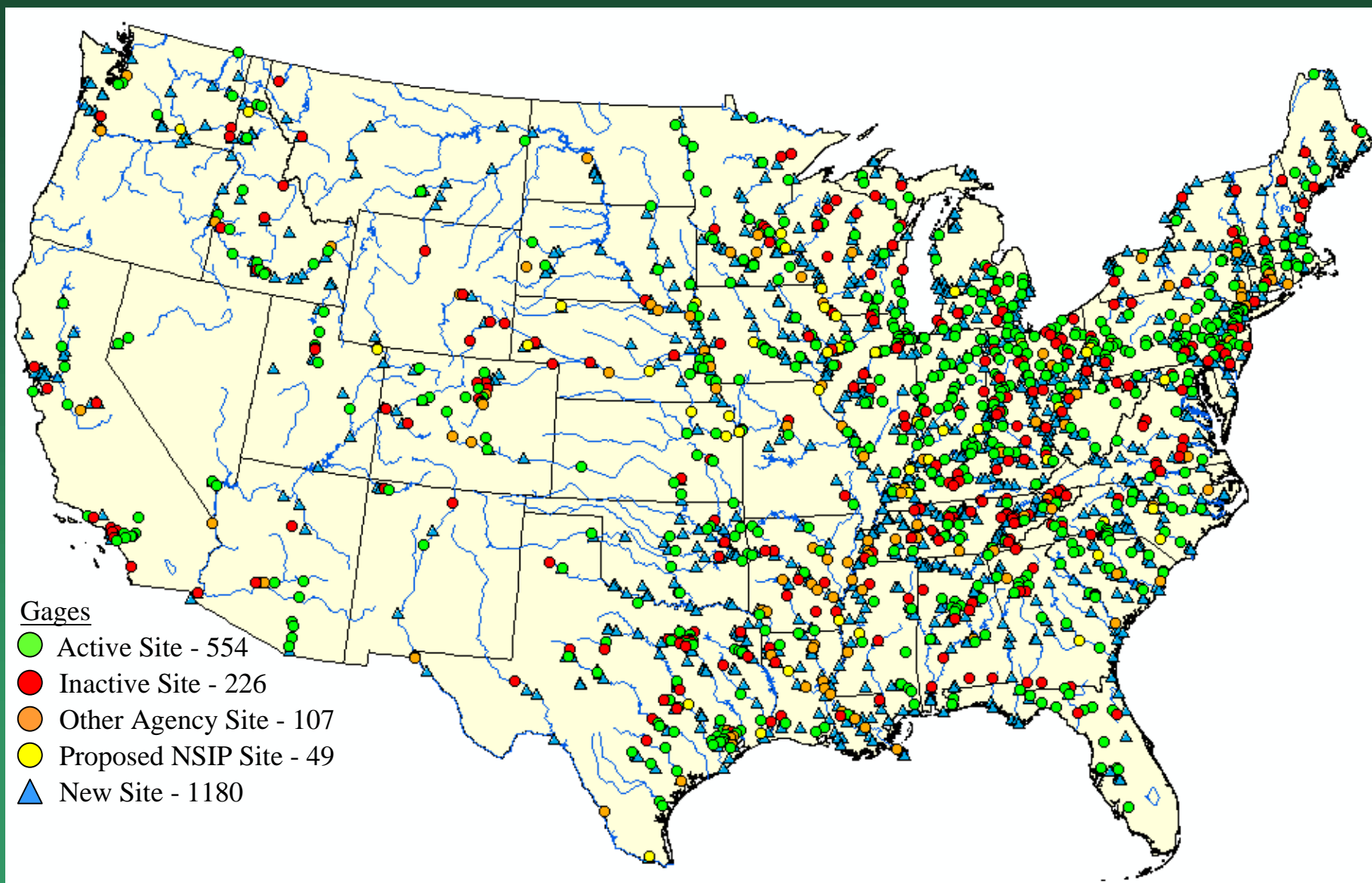
21,602 Participating Communities



Stream Reaches with Impaired Water Quality

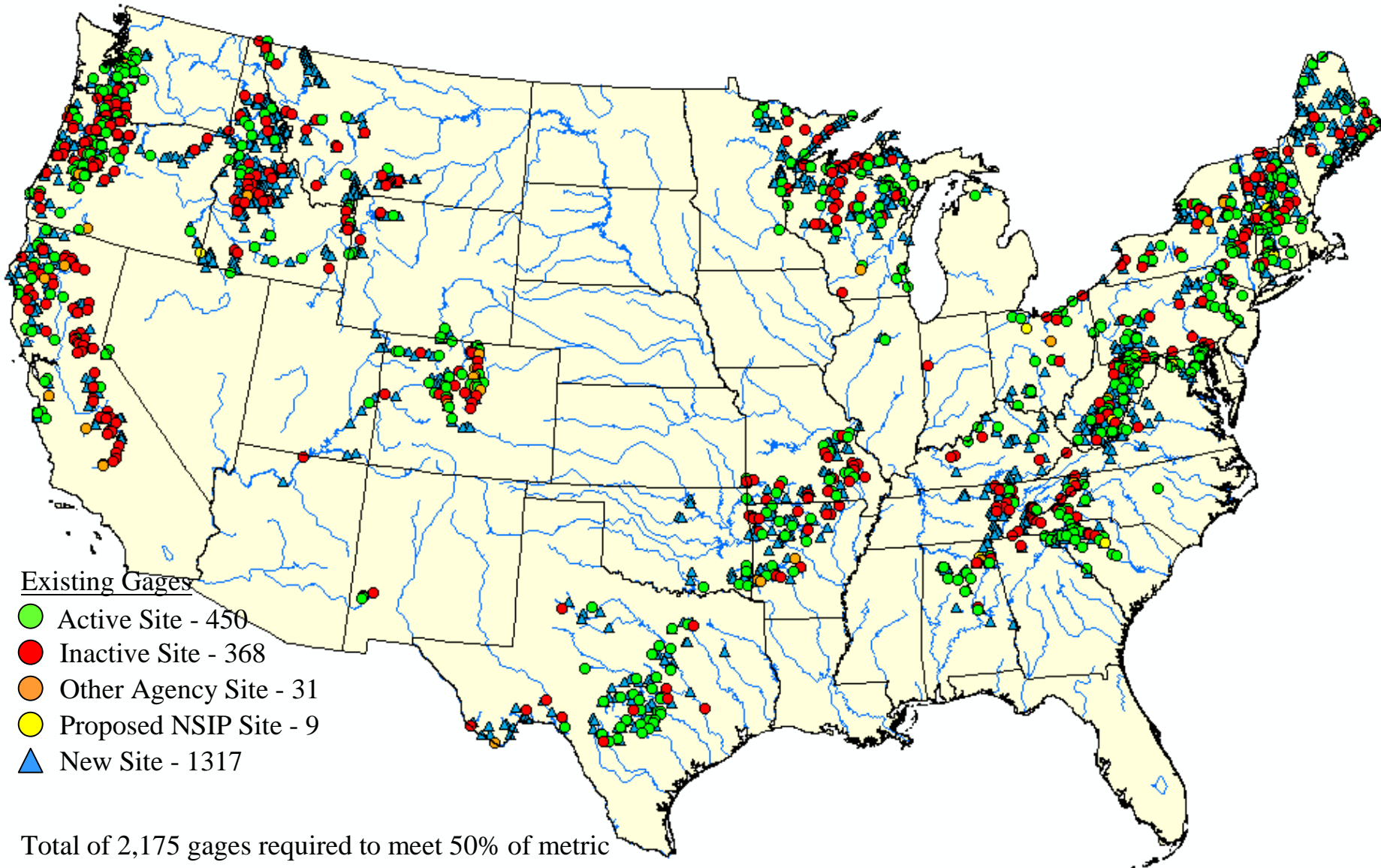


National Pollution Discharge Elimination System Sites

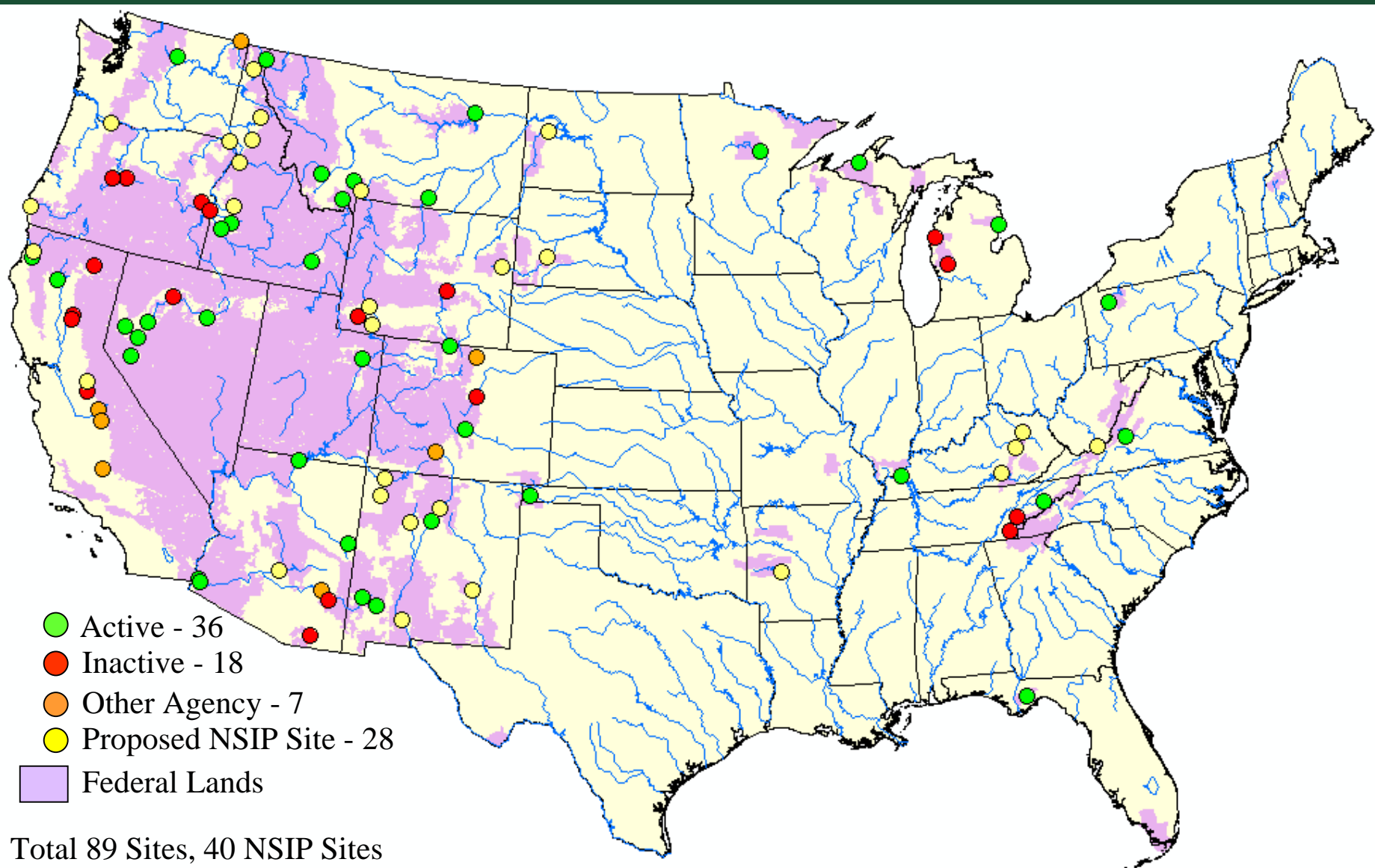


American Whitewater Stream Reaches

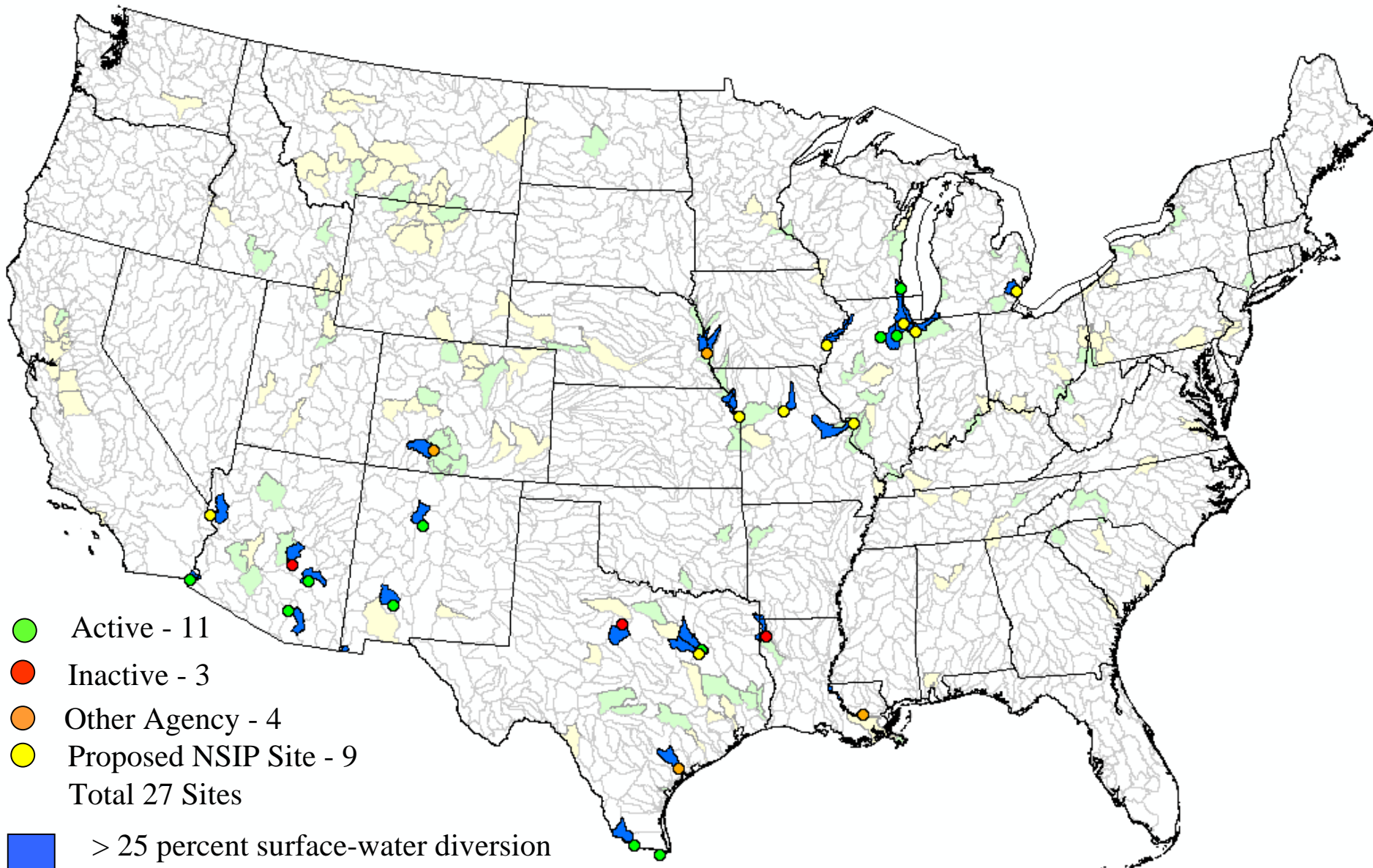
1485 Streams – over 19,000 Miles



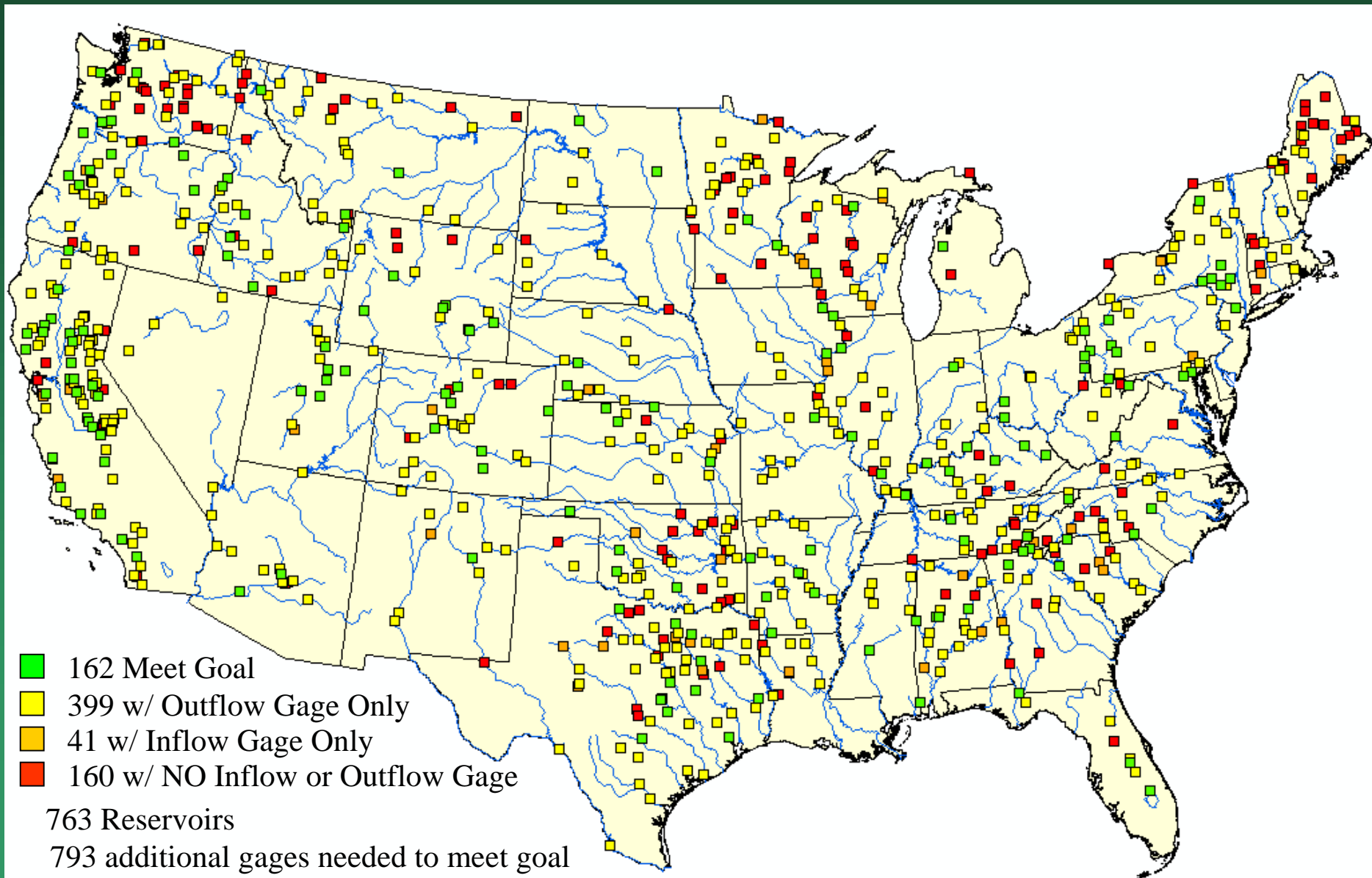
Rivers Draining Federal Lands



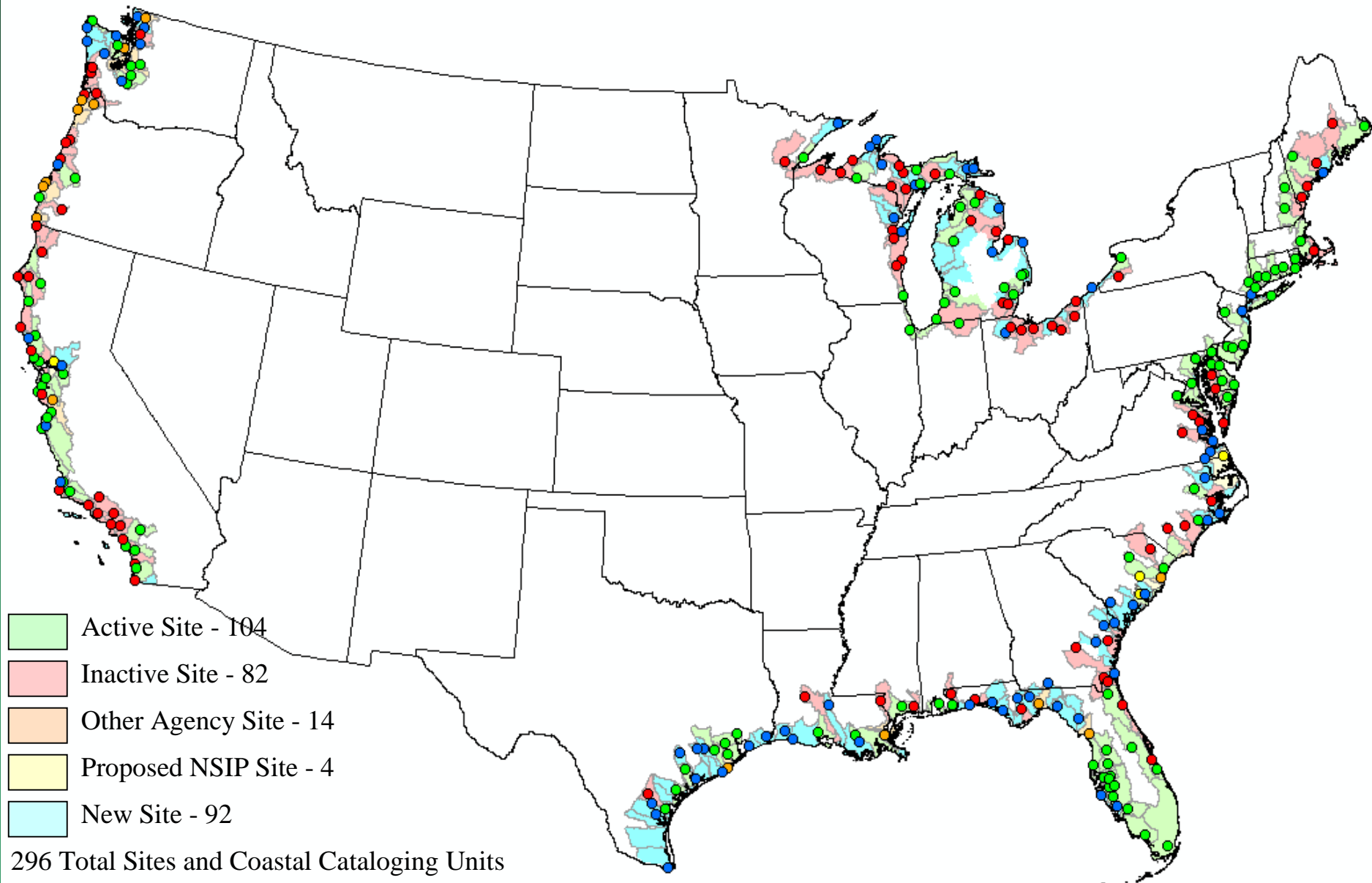
Surface-Water Diversions



Reservoirs with at least 50,000 ac-ft of Normal Capacity

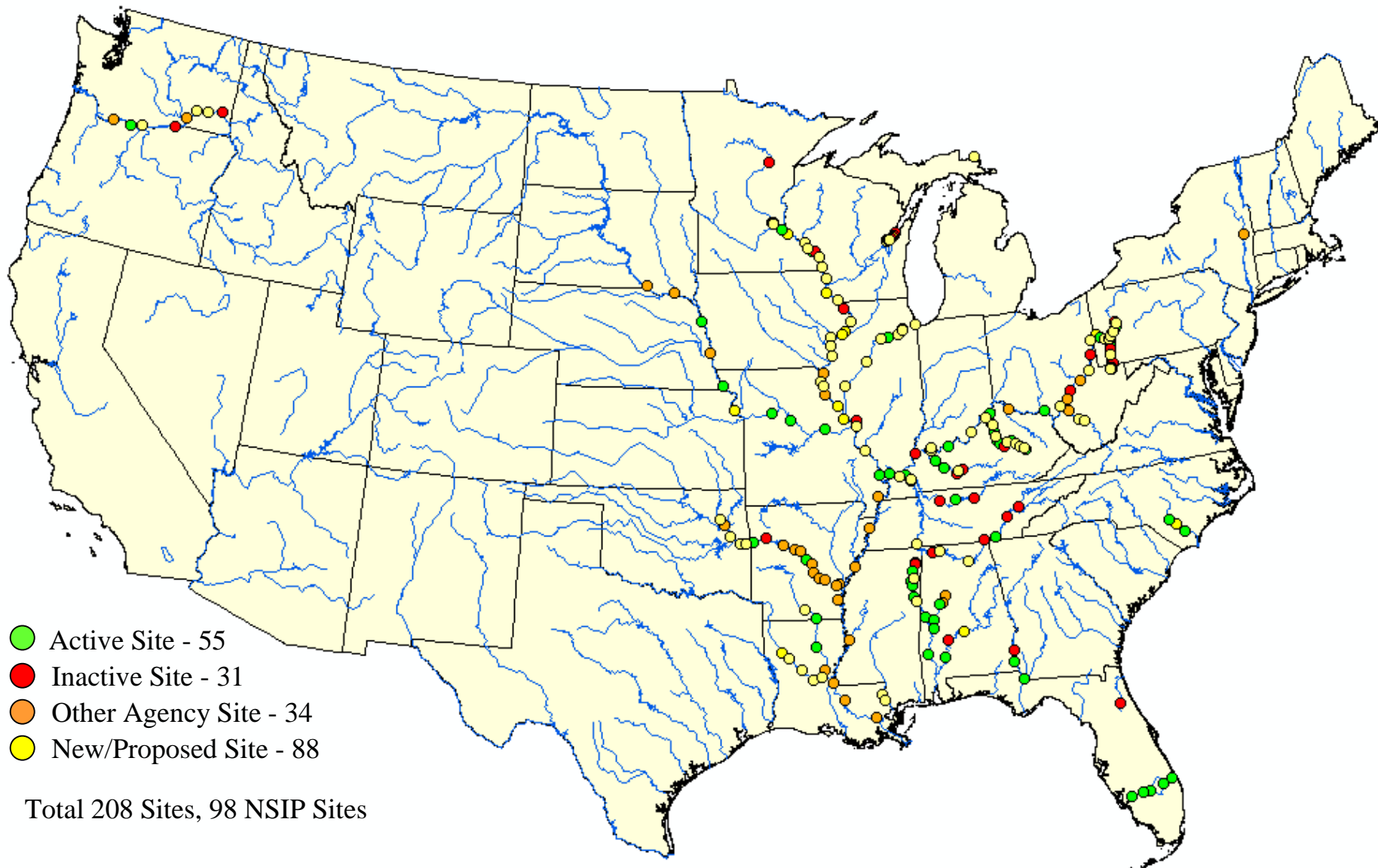


Migratory Fish Habitat



Commercial Navigable Rivers

194 Locks & Dams on 37 Rivers



Summary of Task Force Requirements

NWS and NRCS forecasting	3,127
NFIP communities	7,297
Major river basins	384
Compacts and borders	538
Flow estimation and trends	849
Water-quality monitoring	209
Impaired water quality	9,123
NPDES permits	2,116
River safety	4,350
Federal lands	89
Surface-water diversions	27
Reservoirs	1,526
Migratory fish habitat	296
Commercial navigation	208
Total individual requirements	30,385
Actual number of stations required	18,330

Number of Goals Met By Proposed Network Stations

(30,385 requirements; 18,330 stations)

